

UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:                      Group:                      Attorney Docket # 1852

Applicant(s) : HANS, M., ET AL.

Serial No. :

Filed :

For : APPARATUS AND METHOD FOR AN ADDITIONAL  
CALL SETUP FOR DATA TRANSMISSION...

SIMULTANEOUS AMENDMENT

December 18, 2001

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application  
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.

REMARKS:

This Amendment is submitted simultaneously with filing of the above identified  
application.

With the present Amendment applicant has amended the claims so as to eliminate  
their multiple dependency.

JC13 Rec'd PCT/PTO 18 DEC 2001

Respectfully submitted,

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## CLAIMS

1. A method for an additional call setup for data  
transmission between a second data receiver (2') and a data  
transmitter (1) via at least one mobile telecommunications system  
(3), in which between the data transmitter (1) and the second  
data receiver (2') or a first data receiver (2), a first call  
setup has already taken place within a certain time period  $\Delta t$  in  
the past, and wherein the data transmitter (1) has at least one  
memory device (10), and the mobile telecommunications system (3)  
has at least one air interface (30) and one controller device  
(31), having the following steps:

allocation of resources of the air interface (30) to the  
data transmitter (1), and construction of a certain configuration  
of the data transmitter (1) by means of the controller device  
(31) in the first call setup;

storing the resource occupation and configuring the data  
transmitter (1) of the first call setup in the memory device (10)  
of the data transmitter (1); and

sending an identification message (7) from the controller  
device (31) to the data transmitter (1) in the additional call  
setup, to call up the resource occupation and configuration of  
the data transmitter (1), stored in the memory device (10), for a  
new allocation thereof in the additional call setup.

2. The method of claim 1, characterized in that the  
resource occupation and configuration of the data transmitter (1)  
stored in the memory device (10) of the data transmitter (1) are

stored in memory temporarily.

3. The method of [one of claims 1 or 2] claim 1,  
characterized in that resources that have just been released are  
not allocated by the controller device (31) until no other  
resources are available any longer.

4. The method of [one of the foregoing claims] claim 1,  
characterized in that the resources that are first allocated  
again by the controller device (31) are those whose release  
occurred longer ago.

5. The method of [one of the foregoing claims] claim 1,  
characterized in that an acknowledgment message (5) sent from the  
controller device (31) to the data transmitter (1) is  
acknowledged by the data transmitter to confirm a correct  
resource allocation.

6. The method of [one of the foregoing claims] claim 1,  
characterized in that the instant of callup of the resource  
occupation and configuration of the data transmitter (1), stored  
in the memory device (10) of the data transmitter (1), for a new  
allocation thereof in the additional call setup is predetermined.

7. An apparatus for an additional call setup for data  
transmission between a second data receiver (2') and a data  
transmitter (1) via at least one mobile telecommunications system  
(3), in which between the data transmitter (1) and the second  
data receiver (2') or a first data receiver (2), a first call  
setup has already taken place within a certain time period  $\Delta t$  in  
the past, and wherein the data transmitter (1) has at least one  
memory device (10), and the mobile telecommunications system (3)

has at least one air interface (30) and one controller device (31),

wherein the mobile telecommunications system (3) has at least one controller device (31) for allocating resources of an air interface (30) to the data transmitter (1) and for constructing a certain configuration of the data transmitter (1) in the first call setup;

wherein the data transmitter (1) has at least one memory device (10) for storing the resource occupation and configuration of the data transmitter (1) of the first call setup in memory; and

wherein the mobile telecommunications system (3) [verb missing] a transmitter (33) for sending an identification message (7) from the controller device (31) to the data transmitter (1) in the additional call setup for calling up the resource occupation and configuration, stored in the memory device (10), of the data transmitter (1) for a new allocation thereof in the additional call setup.

8. The apparatus of claim 7, characterized in that the memory device (10) of the data transmitter (1) is embodied as a temporary memory device (10).

9. The apparatus of [one of claims 7 or 8] claim 7, characterized in that the mobile telecommunications system (3) is embodied as a UMTS (Universal Mobile Telecommunication System) system.

10. The apparatus of [one of claims 7-9] claim 7,

characterized in that the data transmitter (1) is embodied as a mobile telephone (1).

11. The apparatus of [one of claims 7-10] claim 7,  
5 characterized in that the resources, for instance in a UMTS  
(Universal Mobile Telecommunication System) system, are defined  
as a combination of a CDMA (Code Division Multiple Access) code,  
a carrier frequency, and optionally a time slot of a  
corresponding transmission channel.

## CLAIMS

1. A method for an additional call setup for data  
transmission between a second data receiver (2') and a data  
transmitter (1) via at least one mobile telecommunications system  
(3), in which between the data transmitter (1) and the second  
data receiver (2') or a first data receiver (2), a first call  
setup has already taken place within a certain time period  $\Delta t$  in  
the past, and wherein the data transmitter (1) has at least one  
memory device (10), and the mobile telecommunications system (3)  
has at least one air interface (30) and one controller device  
(31), having the following steps:

allocation of resources of the air interface (30) to the  
data transmitter (1), and construction of a certain configuration  
of the data transmitter (1) by means of the controller device  
(31) in the first call setup;

storing the resource occupation and configuring the data  
transmitter (1) of the first call setup in the memory device (10)  
of the data transmitter (1); and

sending an identification message (7) from the controller  
device (31) to the data transmitter (1) in the additional call  
setup, to call up the resource occupation and configuration of  
the data transmitter (1), stored in the memory device (10), for a  
new allocation thereof in the additional call setup.

2. The method of claim 1, characterized in that the  
resource occupation and configuration of the data transmitter (1)  
stored in the memory device (10) of the data transmitter (1) are

stored in memory temporarily.

3. The method of claim 1, characterized in that resources that have just been released are not allocated by the controller device (31) until no other resources are available any longer.

4. The method of claim 1, characterized in that the resources that are first allocated again by the controller device (31) are those whose release occurred longer ago.

5. The method of claim 1, characterized in that an acknowledgment message (5) sent from the controller device (31) to the data transmitter (1) is acknowledged by the data transmitter to confirm a correct resource allocation.

6. The method of claim 1, characterized in that the instant of callup of the resource occupation and configuration of the data transmitter (1), stored in the memory device (10) of the data transmitter (1), for a new allocation thereof in the additional call setup is predetermined.

7. An apparatus for an additional call setup for data transmission between a second data receiver (2') and a data transmitter (1) via at least one mobile telecommunications system (3), in which between the data transmitter (1) and the second data receiver (2') or a first data receiver (2), a first call setup has already taken place within a certain time period  $\Delta t$  in the past, and wherein the data transmitter (1) has at least one memory device (10), and the mobile telecommunications system (3) has at least one air interface (30) and one controller device (31),



wherein the mobile telecommunications system (3) has at least one controller device (31) for allocating resources of an air interface (30) to the data transmitter (1) and for constructing a certain configuration of the data transmitter (1) in the first call setup;

wherein the data transmitter (1) has at least one memory device (10) for storing the resource occupation and configuration of the data transmitter (1) of the first call setup in memory; and

wherein the mobile telecommunications system (3) [verb missing] a transmitter (33) for sending an identification message (7) from the controller device (31) to the data transmitter (1) in the additional call setup for calling up the resource occupation and configuration, stored in the memory device (10), of the data transmitter (1) for a new allocation thereof in the additional call setup.

8. The apparatus of claim 7, characterized in that the memory device (10) of the data transmitter (1) is embodied as a temporary memory device (10).

9. The apparatus of claim 7, characterized in that the mobile telecommunications system (3) is embodied as a UMTS (Universal Mobile Telecommunication System) system.

10. The apparatus of claim 7, characterized in that the data transmitter (1) is embodied as a mobile telephone (1).

11. The apparatus of claim 7, characterized in that the resources, for instance in a UMTS (Universal Mobile

